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the scalar (or dot) product $ab = jajjbj\cos'$
(1) where ' is the angle between the tips of a
and b, whereas $jajand jbj$ represent the

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length of a and b . Vectors a and b are orthogonal (or perpendicular to each other) if their scalar product is zero, i.e. $a \cdot b = 0$.

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Chapter 1 -- Introduction Continuum mechanics is a theory of the kinematics and dynamics of material bodies in the limit in which matter can be assumed to be infinitely subdividable. Scientists have long struggled with the question as to whether matter consisted

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The text begins with a detailed presentation of the coordinate invariant quantity, the tensor, introduced as a linear transformation. This is then followed by the formulation of the kinematics of deformation, large as well as very small, the description of stresses and the basic laws of continuum mechanics.

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Volume II: Continuum Mechanics Volume III:
Elasticity This is Volume II. My appreciation
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Douglas Amarasekara and ... J.L. Ericksen,
Introduction to the Thermodynamics of Solids,
Chapman and Hall, 1991. M.E. Gurtin, An
Introduction to Continuum Mechanics, Academic
Press, 1981.

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continuum mechanics, the text advances to examinations of the kinematics of motion, the governing equations of balance, and the entropy inequality for a continuum. The main portion of the book involves models of material behavior and presents complete formulations of various general continuum models.

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mechanics that describes the macroscopic mechanical behavior of solid or fluid materials considered to be continuously distributed. It is fundamental to the fields of civil, mechanical, chemical and bioengineering.

CONTINUUM MECHANICS - Introduction to tensors
This best-selling textbook presents the concepts of continuum mechanics in a simple yet rigorous manner. It introduces the invariant form as well as the component form of the basic equations and their applications to problems in elasticity, fluid mechanics

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and heat transfer, and offers a brief introduction to linear viscoelasticity.

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Be able to describe motion, deformation and forces in a continuum;

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amentals of nonlinear continuum mechanics, nonlinear finite element formulations, and the solution techniques employed by the software. This book seeks to address this

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problem by providing a uni?ed introduction to these three topics. The style and content of the book obviously re?ect the attributes and abilities of the authors.

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